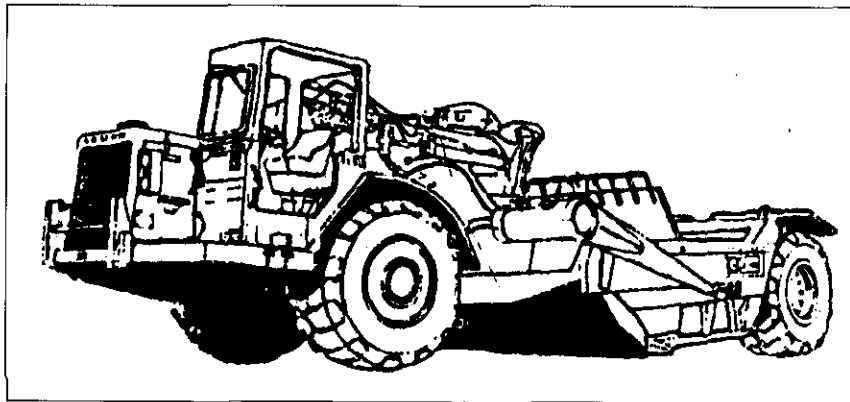


***FOR THE
SCRAPER, EARTH MOVING, MOTORIZED
DIESEL ENGINE DRIVEN
NSN 3805-01-153-1854***



NSN 3805-01-153-1854

DATE: 13 October 99

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Appendix A Pre-Induction Check Sheets for Scraper

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Appendix C Configuration Inspection Check Sheet for Scraper

**STATEMENT OF WORK FOR THE
Inspect Repair Only as Necessary (IROAN) of the
SCRAPER, EARTH MOVING, MOTORIZED
DIESEL ENGINE DRIVEN
NSN 3805-01-153-1854**

1.0 **SCOPE**. This document contains and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the IROAN effort of the Scraper. This document contains requirements to restore the Scraper to condition code "A." Condition code A is defined as serviceable/issuable without qualification. Equipment defined as such should be new, used, repaired or reconditioned material which is serviceable/issuable to all customers without limitation or restriction. This includes material with more than 6 months shelf-life remaining. National Stock Number (NSN) shall be known as the Scraper (NSN 3805-01-153-1854.)

1.1 **BACKGROUND**. IROAN is defined as "the maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies, to prescribed standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 **APPLICABLE DOCUMENTS**. The following documents form a part of this SOW to the extent specified. Unless otherwise specified, issues of these documents are those listed which are in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirement. Unless otherwise specified, these documents are those listed in the Department of Defense Index of Specifications and Standards and supplement thereto, which is in effect on the date of solicitation.

2.1 **MILITARY SPECIFICATIONS**

MIL-C-81309E	Corrosion Preventative Compounds, Water Displacing, Ultra-Thin Film.
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2.2 **MILITARY STANDARDS**

MIL-STD-129N	DoD Standard Practice for Military Marking 15 MAY 97.
MIL-STD-642	Identification Marking of combat and Tactical Transport Vehicles.
MIL-STD-130J	DOD Identification Marking of U.S. Military Property. 01 JUNE 97.

MILITARY STANDARDS (FOR GUIDANCE ONLY)

MIL-STD-973	Configuration Management. INT CHG 3 13 JAN 93
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2.3 **OTHER GOVERNMENT DOCUMENTS AND PUBLICATIONS.** The issues of these documents cited below shall be used.

TM-5-3805-248-14&P-3	Technical Manual Maintenance and Repair.
TM-5-3805-248-14&P-4	Technical Manual, Repair Parts.
ATPD-2241	Vehicles, Wheeled Preparation for Shipment and Storage.
DoD 4000.25-1-M	MILSTRIP Manual.
NAVICPINST 4491.2A	NAVICP Instruction Requisitioning of Contractor Furnished Material from the Federal Supply System.

2.4 **INDUSTRY STANDARDS.**

ANSI/ISO/ASQC Q9002-1994, QUALITY SYSTEMS

Copies of Military Specifications and Standards are available from the Naval Publications and Forms Center, (Attn.: NPODS), 5801 Tabor Avenue, Philadelphia, PA 19120-5099. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: Contracting Officer (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd, Albany, Georgia 31704-1138, commercial telephone number (912) 439-6761 or DSN 567-6761. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn.: Code 825-3, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

3.0 **REQUIREMENTS**

3.1 **GENERAL TASKS.** In fulfilling the specified requirements, the contractor shall provide and maintain a Quality System that adheres to the requirements of ANSI/ISO/ASQC Q9002-1994 , Quality Systems Model for Quality Assurance in Production, Installation, and Servicing, for supplies and services.

a. Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the Scraper. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

b. Provide all tools and test equipment required to test, inspect, and calibrate the Scraper.

c. In-process and final on-site testing must be witnessed by an MCLB, Albany, representative.

d. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the restoration of the Scraper.

3.1.1 **IROAN OBJECTIVE AND FUNCTIONS.** After IROAN, the Scraper shall have the following minimum characteristics:

- a. Reliable as per system specifications.
- b. Maintainable as per system specifications.
- c. Serviceable (Condition Code "A").
- d. All vehicle systems and components shall operate as intended.

3.2. **DETAILED TASKS.** The following tasks describe the different phases for IROAN of the Scraper.

Phase I	Pre-Induction
Phase II	IROAN
Phase III	Inspection, testing and acceptance
Phase IV	Packaging, Handling, Storage and Transportation (PHS&T)

3.2.1. **PHASE I-PRE-INDUCTION.**

a. A pre-induction inspection analysis shall be performed for the Scraper using the Contractor's diagnosis, inspection and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre- Induction Check Sheet located in Appendix A, maintained and be made available upon request to the MCLB Albany, representatives.

b. Test equipment shall be used to determine that assemblies and subassemblies meet *prescribed reliability performance, and work requirements. In cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested or repaired to the degree necessary to assure full conformance with this SOW.*

c. Oil seal and gasket leakage. Evidence of lubricating or hydraulic oils passing through or around a seal is not a defect; however, consideration must be given to the fluid capacity in the item being checked/inspected. *Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperature. The following shall be used as a guide in determining degree of oil loss:*

(1) Class I - Seepage of fluid indicated by wetness or discoloration not great enough to form drops.

(2) Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

(3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

NOTE: A CLASS I OR II LEAK, EXCEPT FUEL SYSTEM AND BRAKE SYSTEM, IS AN ACCEPTABLE CONDITION AT ANY TIME AND DO NOT REQUIRE CORRECTIVE ACTION.

3.2.2 PHASE II - IROAN. IROAN shall be performed at the contractors facility. Information recorded on the IROAN Pre-Induction Check Sheets during pre-inspection phase shall be used as a guide by the contractor to achieve the mechanical baseline of production. After pre-induction tests and inspections have been completed, repair of the Scraper shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Check Sheet during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair. Mandatory replacement parts is contained in TM 5-3805-248-14&P-4. The final Road Test Check Sheet shall be completed and can be found in Appendix B of this SOW.

The following efforts shall be performed as part of the IROAN:

a. **DETAILED MECHANICAL REWORK.** Scraper received for IROAN shall be reworked in accordance with the following paragraphs. All discrepancies noted on the IROAN Pre-Induction Check Sheet shall be repaired/replaced.

b. **HARDWARE**

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, safety, and one-time use items, etc, in accordance with this SOW. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

(4) Hardware used in this IROAN shall be in accordance with existing technical publications.

c. **ENGINE ASSEMBLY**

(1) **TEST PROCEDURES.** After all pre-induction tests and inspection have been

completed, the power pack shall be removed from the equipment, steam cleaned, and inspected for loose or missing items. Follow all warnings and procedures to assure you are working with safe and efficient methods and conditions.

Central Structure

- (a) Camshaft Group
- (b) Connecting Rod and Piston Group.
- (c) Crankshaft Group
- (d) Cylinder Block Cover Group
- (e) Cylinder Block Group

Upper Structure

- (a) Cylinder Head Group
- (b) Lifting Eye Group
- (c) Valve mechanism Cover Group
- (d) Valve Mechanism Group

Front Structure

- (a) Front Accessory Drive Group
- (b) Front Timing Gear Group
- (c) Front Housing Cover Group
- (d) Front Housing Fastener Group
- (e) Front Housing Group
- (f) Rubber Damper Group
- (g) Support Group
- (h) Trunnion Group

Rear Structure

- (a) Flywheel Group
- (b) Flywheel Housing Cover Group
- (c) Flywheel Housing Group

Lower Structure

Oil pan Group

Engine Lubrication System

- (a) Breather Group
- (b) Fumes Disposal Group
- (c) Oil Filler Group
- (d) Oil Level Gauge Group
- (e) Oil Pump Group

Cooling System

- (a) Oil Cooler Group
- (b) Water Lines Group
- (c) Water Pump Group

Intake and Exhaust System

- (a) After cooler Group
- (b) After cooler Water Lines Group
- (c) Air Compressor Group
- (d) Air Compressor Lines Group
- (e) Air Lines Group
- (f) Exhaust Manifold Group
- (g) Turbocharger Oil Lines Group

Fuel System and Governor

- (a) Fuel Injection Lines Group
- (b) Fuel Filter Group
- (c) Fuel Filter Lines Group
- (d) Fuel Ratio Control Group
- (e) Fuel Transfer Pump Group
- (f) Governor and Fuel Pump Drive Group
- (g) Governor and Fuel Pump Group
- (h) Tachometer Drive Group

(2) PASS/FAIL. After the engine run test has been completed. The engine assembly shall meet or exceed the minimum specifications to be considered as having passed.

The above procedures for repair/replacement can be found in (TM 5-3805-248-14&P-3).

d. COOLING SYSTEM

(1) Test Procedures. Test the following. in accordance with TM 5-3805-248-14&P-3 to conform with inspection and testing procedures to assure full conformance with this SOW.

- (a) Radiator Group
- (b) Protection Cover Group
- (c) Water Pump Group
- (d) Water Lines Group
- (e) Suction Fan Group
- (f) Oil Cooler Group
- (g) Brake Oil Cooler Group
- (h) Torque Converter Oil Cooler Group

(2) PASS/FAIL. Replace coolant, coolant belts, radiator, and heater hoses. Replace anti-freeze protection. Replace any hose on above equipment that fail test/inspection in accordance with TM 3805-248-14&P-3.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3

e. INTAKE AND EXHAUST SYSTEM

(1) TEST/INSPECTION PROCEDURES. Test the following. in accordance with TM 5-3805-248-14&P-3 to conform with inspection and testing procedures to assure full conformance with this SOW.

- (a) Air Lines Group
- (b) Air Compressor Lines Group
- (c) Turbocharger Group
- (d) Turbocharger Cartridge Group
- (e) Turbocharger Oil Lines Group
- (f) After cooler Group
- (g) After cooler Water Lines Group
- (h) After cooler Coolant Filter Group
- (i) Exhaust Manifold Group
- (j) Exhaust Extension Group
- (k) Muffler Group

(2) PASS/FAIL. Repair/Replace any or all of the above components that fail pre-induction inspections/test.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

f. HYDRAULIC SYSTEM

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Control Group, Trailing Unit.

- (b) Control Valve Group.
- (c) Hydraulic Tank and Filter Group.
- (d) Breaker Relief Valve Group.
- (e) Cartridge Group.
- (f) Hydraulic And Fluid System.
- (g) Hydraulic Cylinders.
- (h) Drift of Bowl Cylinders.
- (i) Drift of Apron Cylinder.

(j) Replace if any evidence of hydraulic oil leakage at the surface of the hose or its junction with the metal end couplings.

(k) Replace if any blistering or abnormal deformation to the outer covering of the hose.

(l) Replace if hydraulic oil leak at any threaded or clamped joint that cannot be eliminated by normal tightening.

(m) Replace if evidence of excessive abrasion or scrubbing on the outer surface of hoses.

(2) PASS/FAIL. Repair/Replace any of the above if fail in accordance with TM 3805-248-14&P-3. Tube lines that are pinched or dented replace.

g. POWER TRAIN-POWER TRANSMISSION UNIT

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Transmission Case and cover Group.
- (b) Planetary Transmission Group.
- (c) Transmission Hydraulic Control Group.
- (d) Automatic Shifting Valve Group.
- (e) Automatic Pressure Control and Selector Valve Group.
- (f) Pressure Control Valve Group.

- (g) Selector Valve Group.
- (h) Shift Pressure Valve Group.
- (i) Torque Converter Group.
- (j) Manifold and Screen Group.
- (k) Governor and Drive Group.
- (l) Scavenge Pump Group.
- (m) Transmission Filter Group.
- (n) Pore Train Oil Lines Group.
- (o) Retarder Control Group.
- (p) Retarder Valve Assembly.
- (q) Gear Pump Group.
- (r) Differential Group.
- (s) Drive Shaft Group.
- (t) Final Drive and Wheel Group.
- (u) Differential Lock Control Group.

(2) PASS/FAIL. Upon completion of inspection/test, the transmission shall meet or exceed the minimum specifications. In the event the transmission fails the inspection. It shall be repaired or replaced. The transmission oil, filter, and oil pan gasket shall be replaced.

h. STEERING AND BRAKING SYSTEM

(1) INSPECTION/TEST PROCEDURES. Inspect power steering pump, Steering Servo-Receiver Mounting and Cylinder, steer motor and pump, reservoir, and cap for leaks and proper function.

- (a) Inspect all power steering cylinder hoses for leaks.
- (b) Inspect steering gear box assembly.
- (c) Inspect all power steering tubing for leaks, cracks, kinks, or flat section.

- (d) Inspect Steering hydraulic tank.
- (e) Inspect steering wheel for cracks.
- (f) Inspect Brake Control Group.
- (g) Inspect Brake Actuator Group.
- (h) Inspect Control valve Group
- (i) Inspect Slack adjuster Group.
- (j) Inspect Service Brake Group.
- (k) Inspect Air Dryer Group.
- (l) Inspect Steering Lines Group.
- (m) Inspect Pressure Reducing Valve Assembly.
- (n) Inspect Steering Valve Group.
- (o) Inspect Steering Gear Group.
- (p) Inspect Gear Pump Group.
- (q) Inspect Double Valve Pump Group.
- (r) Inspect the Vane Pump Group.
- (s) Inspect Cartridge Group.
- (t) Inspect all Steering Cylinders
- (u) Inspect Steering Servo-Receiver Mounting and Cylinder Group.

NOTE: All steering cylinders shall be removed and new seal kits and springs installed 100 percent.

No welding or straightening (hot or cold) shall be permitted on steering gear controls. Steering wheels with minor cracks 1/8 inch wide or less which do not extend to the steering wheel core may be repaired by filling with a non-shrinking epoxy and sanded smooth.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

i. CHASSIS

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Frame and Case Group.
- (b) Front Bumper Group.
- (c) Operator Compartment Group.
- (d) Hood Group.
- (e) Fender Group.
- (f) Hitch Group.
- (g) Radiator Guard Group.
- (h) Crankcase Guard Group.
- (i) Turn Stop Group.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

j. BRAKE SYSTEM

All of the brakes in the brake system are shoe type brakes. There is a brake at each wheel of the Scraper. These brakes are activated by air pressure in brake actuators. The brake actuators give the machine three types of brakes: service, emergency and parking.

(1) INSPECTION/TEST PROCEDURES. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Inspect Brake Linkage, Hand Brake and pedal.
- (b) Inspect parking brake for proper functioning.
- (c) Inspect service brake.
- (d) Inspect all brake lines for cracks and leaks.
- (e) Inspect brake pads.

- (f) Inspect hydraulic brake system.
- (g) Inspect mechanical brake system.
- (h) Inspect air reservoir tank for leaks and rust.
- (i) Perform brake pump flow test.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

k. TIRES, WHEELS

(1) INSPECTION PROCEDURES. Inspect tire inflation. Inspect cupping, chunking, cuts, and cracks.

(a) Inspect wheels for cracks, breaks, and damaged mounting holes.

(b) Wheels shall be free of cracks breaks, and damaged mounting holes. All wheels that do not meet these requirements shall be replaced.

(2) PASS/FAIL. Each tire must have 4/32 inch or more of tread remaining and be in good serviceable condition. All tires shall be matched to provide proper performance and approximately equal life. Tires shall not show evidence of cupping or chunking. Tires shall not have cuts or cracks greater than one inch in length, 1/8 inch wide. Tires shall not have cuts or breaks, regardless of length or width, which extend to the fabric, Rubber separation or bulges on tire side walls are not acceptable.

All tires that do not meet these requirements shall be replaced.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

1. ELECTRICAL SYSTEM

The Electrical System is a 24 volt charging system.

(1) INSPECTION/TEST. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

Inspect all wiring harnesses, battery cables for corrosion, bent or missing pins, ripped or torn insulation and tie wraps. The following electrical systems should be tested/inspected.

- (a) Alternator
- (b) Solenoid Switch Assembly

- (c) Starting Motor Group
- (d) Instrument Panel
- (e) Fuse Holder/fuses
- (f) Lights
- (g) Batteries, Storage/Batteries
- (h) Chassis Wiring Harness

(2) PASS/FAIL. Repair/Replace all missing and bent pins. Repair of insulation less than four inches in length may be accomplished using electrical tape. Tears or rips in excess of four inches shall require installation of new conduit. Corrosion shall be removed from components in accordance with MIL-C-81309. Upon removal of corrosion, if component does not function properly, replace component. Replace all damaged battery cables, and any missing or damaged tie wraps.

The above procedures for test/inspect repair or replacement can be found in TM 5-3805-248-14&P-3.

m. CAB, GAUGES AND ACCESSORIES

(1) TEST/INSPECTION PROCEDURES. Check for broken bolts, cracks, broken welds, and rust. Check for loose or missing hardware. Remove all insulation from cab/floor and inspect for corrosion. Inspect the following.

- (a) Seat Suspension Group.
- (b) Roll-Over Protective System.
- (c) Doors, Cab.
- (d) Fenders, Windows.
- (e) Cab Windshield Group.
- (f) Windshield Wiper Group.
- (g) Body, Chassis, and Hull Accessory Items.
- (h) Data Plate and Instruction Holder.
- (i) Rear View Mirror Group.

- (j) Air Horn Group.
- (k) Defrosting Fan Group.
- (l) Gauge Group.
- (m) Heater Group.
- (n) Harness Assembly.
- (o) Return Air Console Group.
- (p) Control Console Group.
- (q) Draft Frame Group.

(2) PASS/FAIL. Repair/Replace the above items and dents that exceed 7/16 of an inch.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

n. DATA PLATES AND DECALS.

DATA PLATE. Each repaired Scraper shall have an IROAN data plate affixed next to the existing data plate. The data plate shall meet the requirements of MIL-STD-130.

(1) Test procedures. Inspect vehicle for missing, damaged, and illegible data plates and decals.

(2) PASS/FAIL. Replace all data plates and decals that are missing and illegible. IROAN data plates shall be prepared by the DMA or contractor and contain the following information:

VEHICLE SERIAL NO _____ REPAIRED IN
ACCORDANCE WITH TM 5-3805-248-14&P-3 STANDARDS.
CONTRACTOR FACILITY _____ DATE _____
ODOMETER OR HOUR READING AT TIME OF IROAN _____

NOTE: Odometers and hour meters on vehicles IROAN under provisions of this SOW shall not be turned back to zero.

Position IROAN DATA PLATE in place of old data plate.

RECORD JACKET: Be sure to record all major equipment or component serial numbers that are replaced in the record jacket of the Scraper. (This include engines, transmission, ect.)

3.2.3. PHASE III - INSPECTION, TESTING AND ACCEPTANCE.

a. Inspection, testing and acceptance of the Scraper shall be conducted in accordance with TM 5-3805-248-14&P-3.

b. The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance test shall be held at the contractor facility. MCLB, Albany Georgia representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all Scraper parts and components, ect, not required for the test.

c. The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB Albany, Georgia representatives may require the contractor to report tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

d. Acceptance testing on the Scraper repaired under the provisions of this SOW shall be accomplished in accordance with TM-5-3805-248-14&P-3.

e. Vehicle Markings. Registration numbers and other markings shall be applied in accordance with MIL-STD-642. Lifting and tie down attachments shall be identified with one inch letters indicating "SLING POINT" or "TIE DOWN."

3.2.4. PHASE IV - PACKAGING HANDLING STORAGE AND TRANSPORTATION (PHS&T).

a. The Contactor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items scheduled for long term storage shall be Level A in accordance with ATPD-2241. Items being prepared for domestic shipment, immediate use, and/or shipment to overseas destinations with the exception of Maritime Prepositioned Forces (MPF), shall be preserved to Level B, Drive-on/Drive-off. Items being prepared for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE." Items scheduled for shipment to MPF shall be Level B, MPF Modified Drive Away.

b. The terms "Drive-On/Drive-Off" and "MPF Modified Drive Away" are defined as follows:

(1) Drive-On/Drive-Off - Batteries shall be hot and disconnected from vehicle electrical system. Terminals and leads shall be taped. Fuel tank shall be filled ¼ tank full. The air intake system, exhaust and brake systems, drive-train and gauges are to be de-preserved.

(2) MPF Modified Drive Away - Batteries shall be hot and connected to vehicle electrical system. Fuel tank shall be filled ¾ full of JP5 with additives. The air intake system, exhaust and brake systems, drive-train and gauges are to be de-preserved. Fire extinguisher bracket and seats shall be installed.

c. Marking shall be in accordance with MIL-STD-129.

d. The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The Contractor shall be responsible for arranging for shipment of the equipment to the pre-designed site(s). The Marine Corps will be responsible for transportation costs associated with shipping the subject equipment to and from the contractor.

3.3 CONFIGURATION MANAGEMENT

3.3.1 CONFIGURATION STATUS ACCOUNTING (CSA)

a. The contractor shall record and submit data on retrofit accomplished during Phase II.

b. The contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a configuration inspection check sheet to the contractor. The contractor shall use one check sheet for the Scraper to record the inspection findings along with other required data. The check sheet must be prepared/provided by the requiring office for attachment at the time of SOW staffing.

c. The contractor shall record serial numbers of the assemblies listed on the configuration inspection check sheet. The contractor shall record the information on the same form that was used to record the application status of configuration changes.

3.3.2 CONFIGURATION CONTROL. The baseline configuration for the Scraper has been established in applicable TM 5-3805-248-14&P-3. No deviations from this baseline configuration shall be allowed unless authorized by MCLB Albany, Georgia (Code 837). When deemed necessary to request a temporary departure from a configured item's characteristics, the contractor shall prepare and submit a Request for Deviation/Request for Waiver. MIL-STD-973 (paragraphs 5.4.3, 5.4.4, and Appendix E) may be used as a guide.

3.4 GOVERNMENT FURNISHED EQUIPMENT (GFE)/ GOVERNMENT FURNISHED MATERIEL (GFM)

a. GFE is government owned equipment authorized by contract for use by a commercial or government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/statement of work. In the event the Marine Corps does have GFE/GFM requirements, the Management Control Activity (MCA/G316-2), Marine Corps Logistics Bases, Albany, Georgia will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

- b. The GFE list must be provided by the Equipment Specialist.

3.5. **CONTRACTOR FURNISHED MATERIEL (GFM)**. The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A.) In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DoD 4400.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DoD Supply System.

3.6 **QUALITY ASSURANCE PROVISIONS**

The performances of the contractor and the quality of work delivered, material provided and documents written shall be subject to in process review and inspection by the MCLB Albany representatives during contract performance. Inspection may be accomplished at any work location. Authorized MCLB Albany representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at a reasonable hour. Acceptance tests shall be held in plant. Inspection by the MCLB Albany, representatives of all acceptance tests plans, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance.

The Contractor shall provide and maintain a quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing.

The contractor shall have in place documented procedures and standards for quality assurance and the repair facilities work shall be subject to in process reviews and inspections for compliance with these procedures and standards by MCLB Albany representatives.

Noncompliance with procedures resulting in degraded quality of work may result in a stop work order requiring action for the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such MCLB Albany representatives inspection. It shall be the repair facilities responsibility to ensure that the entire system meets the performance requirements. Inspection and test plan shall be utilized as guidelines whenever applicable and in accordance with the SOW.

Quality assurance operations performed by the contractor shall be subject to MCLB Albany representatives verification at any time. MCLB Albany representatives verification can include, but shall not be limited in any matter to the following:

- a. Inspection of materials, products, assemblies, and documentation to assess compliance with quality standards.
- b. Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.
- c. Inspection of deliverable products to assure compliance with all requirements of the Scraper, this SOW, and applicable documents used herein.

3.7 ACCEPTANCE

The performance of the contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in process review and inspection during performance. Inspection may be accomplished in plant or at any work site or location, and Marine/Corps representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours. *Final inspection and acceptance testing shall be conducted at the contractor facility.* Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

Acceptance testing. The Scraper IROANED under the provisions of this SOW shall be accomplished in accordance with TM 5-3805-248-14&P-3

3.8 REJECTION

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, Albany representative. The contractor shall at no additional cost to, MCLB, Albany Georgia, provide the following:

- a. Develop an approach for modification or correction of all deficiencies.
- b. On approval of a documented approach, the contractor shall correct the deficiencies and repeat verification until acceptable compliance with acceptance test procedures is demonstrated.

4.0 REPORTS

Repairable item inspection report. The contractor shall provide a repairable item inspection report for each IROAN of the Scraper identified by United States Marine Corps Serial Number.

- a. Pre-Induction Check Sheet. The contractor shall complete the pre-induction inspection check sheet Appendix A for each equipment repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to MCLB Albany, Georgia Equipment Specialist Code 837 -2 after final acceptance of the Scraper.
- b. The contractor shall provide one copy per vehicle, of the final road test results Appendix B performed on Scraper. Also provide a copy of the Pre-Induction Check Sheet. These sheets must be available for review during the final acceptance testing and shall be sent to MCLB Albany Equipment Specialist Code 837-2 upon acceptance of vehicle.

**PRE-INDUCTION CHECK SHEETS
FOR
SCRAPER**

DATE:**REFERENCES:
ID 08900A****U.S. M.C. NO.** _____ **MILES** _____**JOB ORDER NO.** _____ **HOURS** _____**PRODUCTION NO.** _____ **SERIAL NO.** _____**ENGINE NO.** _____**TRANSMISSION NO.** _____**INSPECTORS' NAME** _____ **BADGE NUMBER** _____ **SHIP NUMBER** _____

=====

NOTE: The following inspection sheets are divided into columns. The inspector will place a check in the column which best describes the condition of the item being inspected for those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column. If the inspector finds a defect that could cause injury to the operator or damage to the end item, testing will cease until the defect is corrected or the decision is made to induct the Scraper into the shop.

=====

PRE-INDUCTION CHECK SHEETS

ITEMS	PASS	FAIL	COMMENTS
1. Monitor Indicator and Gauge Checks			
Key Switch Check	_____	_____	_____
Fuel Gauge Check	_____	_____	_____
Hour Meter Check	_____	_____	_____
Temperature Gauge Check	_____	_____	_____
2. Body & Cab			
Hood	_____	_____	_____
Protection, Rool-Over (ROPS)	_____	_____	_____
Doors	_____	_____	_____
Fenders	_____	_____	_____
Windshield	_____	_____	_____
Upholstery, Seat and Floor Covering	_____	_____	_____
Seat Belts	_____	_____	_____
Mirrors	_____	_____	_____
Wiper Motor	_____	_____	_____
Wiper Blades	_____	_____	_____
Fuel Tank	_____	_____	_____
Hitch Pins	_____	_____	_____

ITEM	PASS	FAIL	COMMENTS
3. Cooling System			
Air Cleaner	_____	_____	_____
Inspect for Loose or Broken welds and rusted conditions	_____	_____	_____
Cooling System Relief Valve	_____	_____	_____
Radiator Group	_____	_____	_____
Fan Bearing	_____	_____	_____
Water Pump	_____	_____	_____
Suction Fan Group	_____	_____	_____
Water Lines	_____	_____	_____
Protection Cover Group	_____	_____	_____
Oil Cooler Group	_____	_____	_____
Fan Belts	_____	_____	_____
4. Intake and Exhaust System			
Air Compressor Group	_____	_____	_____
Exhaust Manifold Group	_____	_____	_____
Turbocharger Group	_____	_____	_____
Turbocharger Cartridge Group	_____	_____	_____
Air Lines	_____	_____	_____
Clamp Assembly	_____	_____	_____
Turbocharger Oil Lines Group	_____	_____	_____
Aftercooler Group	_____	_____	_____
Muffler Group	_____	_____	_____

ITEM	PASS	FAIL	COMMENTS
Engine Compartment Shield Group	_____	_____	_____
Dust Ejector Group	_____	_____	_____
5. Fuel System and Governor			
Fuel Injection Lines Group	_____	_____	_____
Feul Filter Group	_____	_____	_____
Feul Filter Lines Group	_____	_____	_____
Feul Ratio Control Group	_____	_____	_____
Fuel Transfer Pump Group	_____	_____	_____
Governor and Fuel Pump Drive Group	_____	_____	_____
Tachometer Drove Group	_____	_____	_____
6. Hydraulic System			
Control Group, Trailing Unit	_____	_____	_____
Control Valve Group	_____	_____	_____
Control Valve Assembly	_____	_____	_____
Valve Group	_____	_____	_____
Air Control Vlvalve Group	_____	_____	_____
Internal Filter Group	_____	_____	_____
Hydraulic Tank and Filter Group	_____	_____	_____
Breaker Relief Valve Group	_____	_____	_____
Cartridge Group	_____	_____	_____
7. Apron Cylinder Group	_____	_____	_____
Apron Lift	_____	_____	_____

ITEM	PASS	FAIL	COMMENTS
Edge and Bit	_____	_____	_____
Bowl	_____	_____	_____
Bowl Cylinder	_____	_____	_____
Ejector Lines	_____	_____	_____
Ejector Cylinder	_____	_____	_____
Brake Control	_____	_____	_____
Brake Actuator	_____	_____	_____
Slack Adjuster	_____	_____	_____
8. Power Train-Power Transmission Unit			
Transmission Power Take Off	_____	_____	_____
Control Linkage Check	_____	_____	_____
Check Transmission for cracks, leaks and damage housing.	_____	_____	_____
Planetary Transmission Group	_____	_____	_____
Transmission Hydraulic Control Group	_____	_____	_____
Automatic Shifting Valve Group	_____	_____	_____
Shift Pressure Valve Group	_____	_____	_____
Torque Converter Group	_____	_____	_____
Transmission Filter Group	_____	_____	_____
Differential Group	_____	_____	_____
Drive Shaft Group	_____	_____	_____
Final Drive and Wheel Group	_____	_____	_____

Appendix A (5 of 7)

ITEM	PASS	FAIL	COMMENTS
9. Steering and Breaking System			
Power Steering Cylinder & Hoses	_____	_____	_____
Steering Gear Box	_____	_____	_____
Steering Wheel	_____	_____	_____
Steering Hydraulic Tank	_____	_____	_____
Air Deyer	_____	_____	_____
Gear Pump	_____	_____	_____
Steering Hydraulic Filter	_____	_____	_____
Steering Pump Belt	_____	_____	_____
10. Brake System			
Brake Linkage	_____	_____	_____
Hand Brake & Pedal	_____	_____	_____
Parking Brake	_____	_____	_____
Brake Lines	_____	_____	_____
Brake Pads	_____	_____	_____
Air Reservoir Tank	_____	_____	_____
11. Electroical System			
Alternator	_____	_____	_____
Solenoid Switch Assembly	_____	_____	_____
Starting Motor Group	_____	_____	_____
Instrument Panel	_____	_____	_____
Fuse Holder/Fuses	_____	_____	_____

ITEM	PASS	FAIL	COMMENTS
Lights	_____	_____	_____
Batteries, Storage/Batteries	_____	_____	_____
Blackout Lighting Group	_____	_____	_____
Harness Assembly	_____	_____	_____
Ether Starting Aid Group	_____	_____	_____
Electric Starting Motor Group	_____	_____	_____
12. Tires, Wheels			
Wheels	_____	_____	_____
Tires	_____	_____	_____

FINAL ROAD TEST CHECK SHEET SCRAPER

All safety checks must be satisfactory completed prior to road test. If necessary, before performing tests and checks, wipe down components where grease, oil or dirt could possibly form.

The following items shall be checked during the vehicle static test with the vehicle operating.

	A C C E P T A B L E	M I S S I N G	S E R V I C E	A D J U S T	R E P A R E	R E P L A C E	O D I F Y	REMARKS
1. CHECK THE FOLLOWING GAUGES FOR CORRECT READINGS.								
a. Tachometer reading at idle.								
b. Engine oil pressure, minimum of psi at idle.								
c. Air pressure gauge								
d. Fuel gauge								
e. Engine coolant (after road test)								
2. CAB CONTROLS (can be done on road test)								
a. Windshield wipers								
b. Windshield washer								
c. Heater/Defroster fan								
d. Heater ducts for air transfer								
e. Horn for proper operation								
3. TURN SIGNALS								
4. BRAKE OPERATION (does it pull or stall when applied on quick stop)								
a. Park brake holds								
b. Park brake release, operates properly								
c. Service brakes operate properly								
a. Accelerates smoothly								
b. Doesn't stick or bind								
6. STEERING								
a. Operates smoothly								

Appendix B (1 of 2)

	A C C E P T A B L E	M I S S I N G	S E R I C E	A D J U S T	R E P U L A C E	R E P A I R	M O D I F Y	REMARKS
b. Doesn't wander or pull 7. TRANSMISSION a. Automatic shifting b. Shift lever operations 8. BHYDRAULIC SYSTEMS a. Bowl operation b. Apron operation								

CONFIGURATION INSPECTION CHECK SHEET SCRAPER

IDENTIFICATION NUMBER**TAM NUMBER**

Vehicle registration Number	
Vehicle Serial Number	
Hours at Inspection	
Miles at Inspection	
IROAN Date	
Hours at IROAN	
Miles at IROAN	
Engineering Change Plans (ECP)	
Maintenance Instruction (MI)	
SL-4	
Technical Manuals (TM)	

SECONDARY REPAIRABLE DATA**ITEM****SERIAL NUMBER**

Engine	
Transmission	
Drive Axles	

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0704-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER <u>X</u>
---------------------------	------------	---

D. SYSTEM/ITEM Scraper, Earth Moving, Motorized Diesel	E. CONTRACT/PR NO.	F. CONTRACTOR
---	--------------------	---------------

1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM Request For Deviation	3. SUBTITLE Configuration Management
--------------------------	--	---

4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640B	5. CONTRACT REFERENCE SOW 3.3.2	6. REQUIRING OFFICE MCLBA (825)
--	------------------------------------	------------------------------------

7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION a. ADDRESSEE MCLBA (825-2)	b. COPIES Draft Final Reg Repro		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION		0	1	0

15. REMARKS Blk 4 - Contractor format is authorized. Blks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation. RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. RFDs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Distribution Statement A: Approved for public release; distribution is unlimited.	15. TOTAL 0 1 0
--	--------------------

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

G. PREPARED BY <i>Colt T. H.</i>	H. DATE 10-5-99	I. APPROVED BY <i>M. H. L.</i>	J. DATE 10-13-99
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CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP _____ TM _____ OTHER <input checked="" type="checkbox"/>
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D. SYSTEM/ITEM Scraper, Earth Moving, Motorized Diesel	E. CONTRACT/PR NO.	F. CONTRACTOR
---	--------------------	---------------

1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM Request For Waiver	3. SUBTITLE Configuration Management
--------------------------	---	---

4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641B	5. CONTRACT REFERENCE SOW 3.3.2	6. REQUIRING OFFICE MCLBA (825)
--	------------------------------------	------------------------------------

7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION SEE BLK 16	14. DISTRIBUTION												
8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	<table border="1"> <tr> <th>a. ADDRESSEE</th> <th colspan="3">b. COPIES</th> </tr> <tr> <th></th> <th>Draft</th> <th colspan="2">Final</th> </tr> <tr> <th></th> <th></th> <th>Orig</th> <th>Disp</th> </tr> </table>		a. ADDRESSEE	b. COPIES				Draft	Final				Orig	Disp
a. ADDRESSEE	b. COPIES															
	Draft	Final														
		Orig	Disp													

16. REMARKS Blk 4 - Contractor format is authorized. Blks 10 & 12 - RFWs shall be submitted to obtain authorization to deliver nonconforming material which does not meet prescribed configuration documentation. RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the Government. RFWs shall be transmitted via E-Mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil Distribution Statement A: Approved for public release; distribution is unlimited.	MCLBA (825-2)	0	1	0
	15. TOTAL	0	1	0

G. PREPARED BY <i>Carl P. H.</i>	H. DATE 10-5-99	I. APPROVED BY <i>[Signature]</i>	J. DATE 10-13-99
-------------------------------------	--------------------	--------------------------------------	---------------------

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE